

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Polymer composites suitable as matrix for phase-change materials (PCMs) for the storage of heat, comprising polymers, a silica matrix in which the PCMs are embedded, and optionally additives and/or auxiliaries.
2. (Original) Polymer composites according to Claim 1, characterised in that, as PCMs, paraffins are embedded in a silica matrix.
3. (Currently Amended) Polymer composites according to claim 1 ~~at least one of the preceding claims~~, characterised in that the PCMs are embedded in hydrophobised silica.
4. (Currently Amended) Polymer composites according to claim 1 ~~at least one of the preceding claims~~, characterised in that the PCMs in a silica matrix are incorporated into polymers selected from the group consisting of silicones, polyurethanes and polyesters.
5. (Currently Amended) Polymer composites according to claim 1 ~~at least one of the preceding claims~~, characterised in that auxiliaries are added to the polymers.
6. (Original) Polymer according to Claim 5, characterised in that the auxiliary is a substance having good thermal conductivity, in particular a metal powder, metal granules or graphite.
7. (Currently Amended) Device for cooling heat-generating components, essentially consisting of a heat-dissipating unit and a heat-absorbing unit, which contains at least one polymer composite according to claim 1 ~~one of Claims 1-6~~.
8. (Original) Device according to Claim 7, characterised in that the heat-dissipating unit has structures, in particular cooling fins, which increase the surface area.
9. (Original) Device according to claim 7 ~~Claims 7 and 8~~, characterised in that the heat-dissipating unit has a fan for additional cooling.

10. (Currently Amended)Computer containing polymer composites according to claim 1 ~~Claims 1-6~~.
11. (Currently Amended)Use of polymer composites according to claim 1 ~~Claims 1-6~~ in computers and electronic data-processing systems.
12. (Currently Amended)Use of polymer composites according to claim 1 ~~Claims 1-6~~ in power circuits and power switching circuits for mobile communications, transmitter circuits for mobile telephones and fixed transmitters, control circuits for electro-mechanical actuating elements in industrial electronics and in motor vehicles, high-frequency circuits for satellite communications and radar applications, single-board computers and for actuating elements and control units for domestic appliances and industrial electronics.